

masc-oas

**Online Archive for SAP
User's Guide**

**MVS
Version 2.1.0**

MOAS-UG210-1-E

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1. *masc-oas* DOCUMENTATION OVERVIEW

The following documentations and manuals are available for the *masc-oas* product:

- MOAS-HO210-1-D *masc-oas* "Online Archive for SAP: *Handout*"
- MOAS-GI210-1-D *masc-oas* "Online Archive for SAP: *General Information*"
- MOAS-UG210-1-D *masc-oas* "Online Archive for SAP: *User's Guide*"
- MOAS-IN210-1-D *masc-oas* "Online Archive for SAP: *Installation Guide*"

A complete set of the *masc-oas* documentation is included with the software package. Additional sets can be obtained by using the enclosed order request form.

2. INTRODUCTION

This manual describes the use of ***masc-oas***, the Online Archive for SAP.

This *User's Guide* describes the basic process, as well as the transactions and programs required to use ***masc-oas***, from the end user's point of view. For more detailed technical informations, please refer to the appropriate chapters in the other ***masc-oas*** manuals, especially to the *Installation Guide* where the indexing of the archives and the customization are explained in detail.

3. *masc-oas*, THE ONLINE ARCHIVE FOR SAP

The following chapter gives you a comprehensive overview of the *masc-oas* components and their integration into your SAP environment.

3.1. The Components of *masc-oas*

masc-oas, the Online Archive for SAP, has a modular structure and consists of the following components:

Base Component:	The Base Component contains all of the definitions and programs which form the basis for the implementation of <i>masc-oas</i> . Apart from implementation of the online/batch interface it also encompasses all definitions and administrative programs for the necessary SAP databases.
Archive Components:	The archive components are supplied in accordance with the desired SAP document archive. They contain all programs that are directly dependant on the type of archive, such as indexing programs and the display of the requested documents.

masc-oas archive components will be provided for the following SAP document archives:

- Accounts documents (logical database BSF)
- Commission archive (logical database AAM)
- Purchasing archive (logical database EAM)
- Contracts (logical database KAM)
- Distribution (logical database VAV)
- Cost Accounting Line Items (logical database KEK)
- in addition to any other archives

3.2. Embedding in the SAP Environment

masc-oas builds on the familiar SAP aids for the reorganisation of the SAP ABEZ document database. As a first step a normal SAP document reorganisation (SAPB80U,ff) is executed. The ‘archive tape’ which was created as a consequence of the document reorganisation is subsequently indexed for each document archive, using the *masc-oas* ABAPs. The thus created index datasets facilitate both, direct requests for archive documents, using the

document number and the search of archived documents belonging to a particular account. A particular feature of ***masc-oas***, the so called ‘Short Info’ has to be highlighted. These are document data which are stored in the index datasets. The data stored within the index data contains sufficient information to satisfy approximately 90% of all enquiries. This ensures that the actual document from the document archive need only be retrieved in a few instances.

The following schematic shows the relationships.

Structural model

Online Archive for SAP

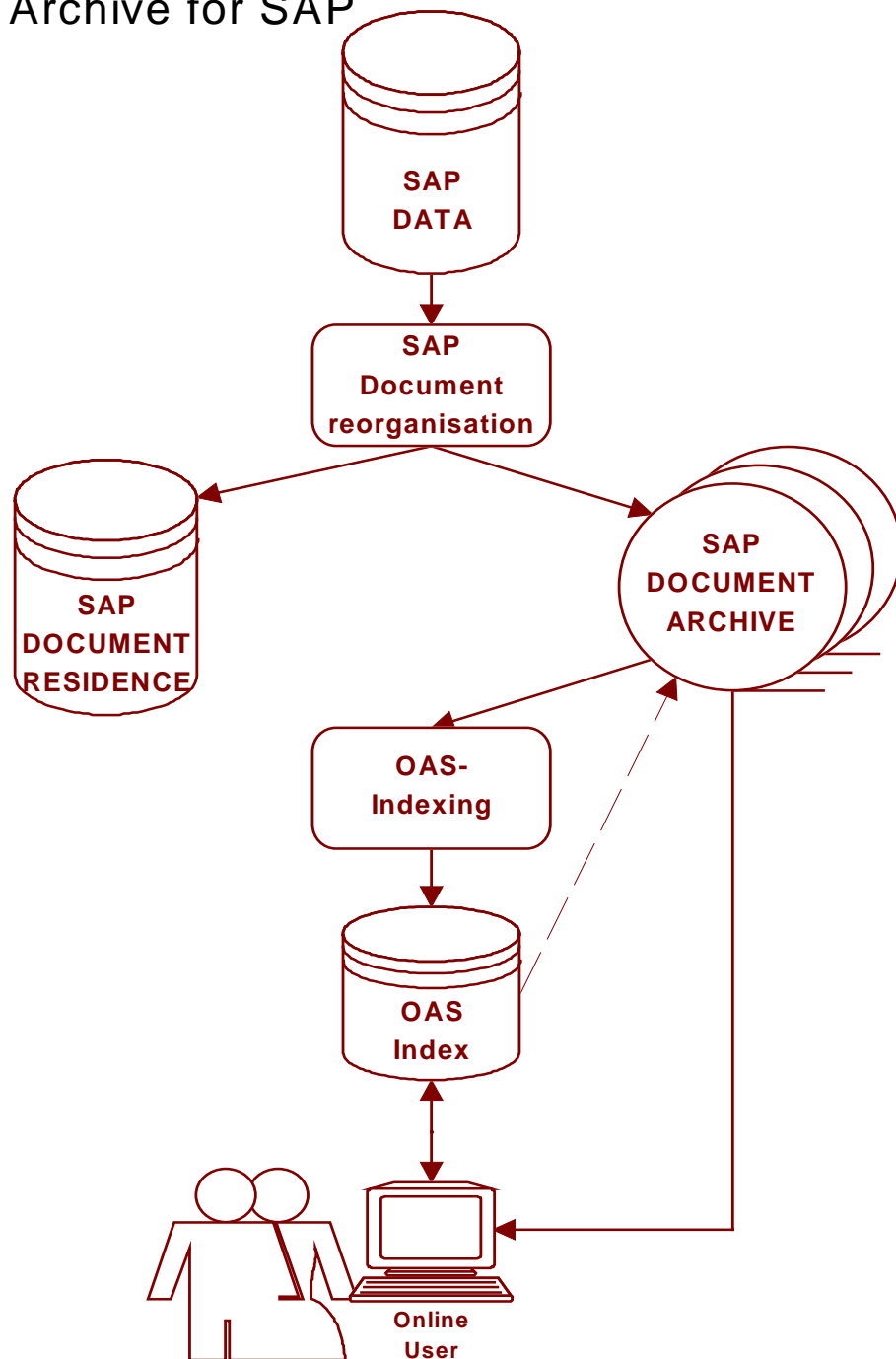


Illustration 1: Online Archive for SAP; Structural Model

4. THE INDEXING OF DOCUMENT ARCHIVES

The indexing of the document archives for use with ***masc-oas*** and the integration into your SAP environment with all options is described in detail in the manual ***Installation Guide***.

Please note there also the table 9YYK that allows to define up to which age document positions are stored in the short info.

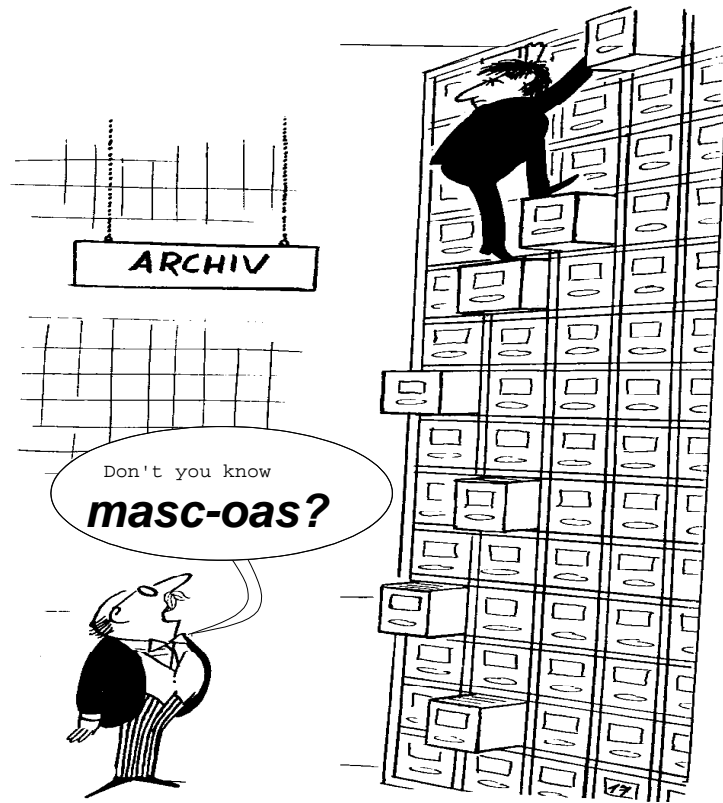
5. THE *masc-oas* TRANSACTIONS

The following chapter describes all of the user transactions made available by *masc-oas* and their application in your SAP environment.

5.1. Introduction

For the user the *masc-oas* request and display transactions are possibly the most important part. They enable him in a totally transparent and user friendly way the access of archived documents, in the same way as the already familiar transactions from the SAP system. Great importance was attached to the conformity of all *masc-oas* transactions to those of the original SAP document display transaction. It goes without saying, that the same security restrictions apply as existed for access to the original transactions for the resident documents.

The following illustrates the request and display of archive documents using an archived accounts document as an example.



5.2. Requests to the BSF Document Archive

5.2.1. Input of Search Parameter

For the user, the request for an archive document is fully transparent, as it is executed within his familiar SAP environment. If, for instance, a document cannot be displayed by using the SAP **TB03** transaction (e.g. E107 Document is not available for display...), then the user can request the document from the archive by initiating the ***masc-oas* YB03** transaction. The values of account group and document number are passed directly and therefore do not have to be reinput.

Request Short-Info of Archived Document	

DOC NUMBER.....	04343296
COMPANY CODE.....	01
DOC TYPE.....	—
ACC PERIOD (YYYYMM).....	—
ACC TYPE.....	—
ACCOUNT.....	—
OK _	1 -38136

Illustration 2: Document request, transaction YB03

In addition to direct searching using the document number, the user can also inspect all archived documents belonging to a particular account. It is easily obtained by entering the appropriate fields in the ***masc-oas* YB03** transaction. This transaction functionally corresponds with the normal enquiry option relating to a particular account in the original **TB10, TB12 and TB14** SAP transactions. In this context, please note that it is possible to 'mask' the value for the month in the accounting-period parameter. E.g. with the indication of '1993**' all accounting-periods for the year 1993 are searched thru.

5.2.2. 'Short-Info' Display

In the following, some archived documents will be shown with their 'Short Infos' in accordance with the request. The display contains the data of the document heading with the some additional information like total amount of the document or the sum of the VAT as well as the document positions as far as they are stored in the Short Info. The description of how to use table 9YYK to control up to which age document positions are stored in the Short Info is contained in the ***Installation Guide***.

CL	CC	Doc. no	Doc type	Doc date	Posted	Curr	Reference	Lin
T	Account	Text		Posting key	Amount	CLR	ALLOC	
01	01	04343296	BT BANK TRANSFER	01.06.93	01.06.93	SFR		003
		Total Amount:		529.62	SFR		Exch Rate: 1,00000	
		Total VAT:		0.00	SFR			
S	00063210	SUPPLIER ACCOUNT		50 N	Credit Entry	10.59	000	
K	00018988	OBELIX & CO.		25 N	Debit Paymen	529.62	133	
S	00101321	SKA SFR DISPENSE-ACCOUNT		50 N	Credit Entry	519.03	000	
OK _ PF: 3=Back 11=Search String 12=Print List 01/01								

Illustration 3: 'Short Info' Display

5.2.3. Requesting an Original Document

If the 'Short Infos' offered by **masc-oas** do not provide sufficient information, then the original document from the document archive can be read simply by pressing the PF2 function key. The physical method of storage is thereby completely irrelevant. The only criteria for successful processing is that the archive dataset is catalogued.

To select a document the cursor has to be placed on the heading line (first line) of the appropriate Short Info and the PF2 function key pressed.

Should the user request access to the archived document by pressing the function key, then **masc-oas** establishes the physical dataset name of the corresponding archive dataset and then creates and initiates a batch job using additional parameters. The located document is written to a 'transfer' database which is available to both the online environment as well as to batch runs. In a SAP installation with CICS, as a last step, the user is directly informed on his display screen in the SAP system of the successful access to the desired document. Now the document can be displayed as already described under the **YOAS** transaction.

Please note, that the user is not locked out after the initiation of the archive document request but can proceed normally. A message regarding termination of the document request is displayed asynchronous on the screen of the user in question, thus avoiding the need to repeatedly press the ENTER key.

5.2.4. Displaying the requested Archive Documents

The **masc-oas YOAS** transaction shows the user all of his requested archive documents for selection for that day. The display shows the requests in sequence. Thus the last requested document is displayed in the first position (A).

```

You have retrieved from the archive the documents:
  CC   DT     Doc. num   Doc. date
-----
A 01   BT     04343296   01.06.93
B 01   CR     00490032   28.02.92
C 01   CR     00491294   15.03.92

OK _      PF: 3=Back 11=Search String 12=Print List          01/01

```

Illustration 4: Requested documents selection list, transaction YOAS

By making a simple selection the user can now inspect the desired document.

Selection occurs either by input of '=A' (or B, C, etc.) or by positioning the cursor onto the desired line and pressing the ENTER key.

The subsequent display corresponds almost entirely with the original TB03 transaction for document display. This layout also, can easily be modified using the supplied ABAP source; e.g. to display company specific fields in the document database.

The following illustrations show the document heading and the individual account entry lines of the requested original document.

Display Arch. Document				BT BANK TRANSFER		01 L & G Business Support	
Posting date..01.06.93				Doc. no..... 04343296		Currency. SFR	
Doc. date.....01.06.93				Ref. no.....		Ref. doc.	
Acc. period. 0993				Text.....			
Input date... 02.06.93				User-Id... F111		Changes 00	
LNO	PK	BV	ACCT.	TITLE		DEB/CRED	VAT
A	001	50N	00	00063210	SUPPLIER ACCOUNT	10.59	00
B	002	25N	00	00018988	OBELIX & CO.	529.62	00
C	003	50N	00	00010321	SKA SFR DISPENSE-ACCOUNT	519.03	00
OK _ PF: 3=Back 11=Search String 12=Print List 01/01							

Illustration 5: Displaying Archive Document; Document Header

Of course the user also has available all of the accounts entry lines which belong to the document.

Display document	04343296	Account Entry Line 001	BT BANK TRANSFER

S 00063210-01-93	SUPPLIER ACCOUNTS		
50N Credit Entry	00 not allocated		

LC-Amount	10.59		

Allocation			000
Text.....			
OK _	PF: 3=Back 11=Search String 12=Print List		1-01/01

Illustration 6: Displaying Archive Document; Entry Line 001

Display Document	04343296	Account Entry Line 002	BT BANK TRANSFER

K 18988	-01-93	OBELIX & CO.	
		HINKELSTEIN-VERTRIEB	
H 00021111		9546	GALLISCHES DORF

25N Payment		00 not allocated	

Amount...	529.62	VAT-Ind..	00

Discount-Basis	0.00	Discount-Red.	10.59
BDPP-Date	00.00.00	Paym. cond.	
Paym. Abr..	0	Paym. terms	0 / 0,0 0 / 0,0 0 Faedt.

Allocation		Control acc	Fin.bd 000
Text.....			
Settlement	01.06.93 133		

OK _	PF: 3=Back 11=Search String 12=Print List		1-01/01

Illustration 7: Displaying Archive Document; Entry Line 002

Display Document	04343296	Account Entry Line 003	BT BANK TRANSFER

S 00010321-01-93		SKA SFR DISPO-ACCOUNT	
50N Credit-Entry		00 not allocated	

LC-Amount.....	519.03		
Effective date	01.06.93		

Settlement	07.06.93 251		
Allocation	930601		000
Text.....			

OK _	PF: 3=Back 11=Search String 12=Print List		1-01/01

Illustration 8: Displaying Archive Document; Entry Line 003

The option also exists to display the requested archive documents directly from the **mascoas** YB03 transaction. For this, a request for the original document is initiated by pressing the PF2 key as described above. If the requested document has already been requested once during the current online session (regardless of the user) the original document is displayed immediately without the initiation of a batch job.

5.3. Requests to the VAV Document Archive

For the user, the request for an archive document is fully transparent, as it is executed within his familiar SAP environment. If, for instance, a document is not displayed by using the standard SAP transactions (e.g. E107 Document is not available for display...), then the user can request the document from the archive by initiating the ***masc-oas*** transaction **YA03**, **YA05**, or **YA06**.

5.3.1. YA03, Display of a document

Display Short Info for RV archive

Document number..... _____
Company code..... 01
Acc period (YYYYMM,*****)..... *****
Doc type (A/N/L/R/G/*)..... *

OK _ 1 -38136

Illustration 9: Transaction YA03

Using transaction YA03 it is possible to search directly for a document. Document number and Company code are required fields and cannot be entered generically.

The accounting period, however, allows a generic entry with a default of *****, i.e., no exact entry of the month or the year.

A further selection is possible via Document Type, where also a generic entry is allowed.

The meaning of the document types is as follows:

- | | |
|---|---------------|
| A | Order |
| L | Delivery note |
| N | Offer |
| R | Invoice |
| G | Credit note |

5.3.2. YA05, Display of documents per customer

```
Display archive via customer number
-----

Customer number..... *
Company code..... 01
Doc type (Doc type or *)..... f2
incl. positions..... x

OK _                                     1 -38136
```

Illustration 10: Transaction YA05

The customer number can be entered generically. The company code has to be entered explicitly. Document type means document type of the document, e.g. TA for a Terminauftrag, also here a generic entry is allowed.

If some documents match the selection criteria, these are shown as a list for an additional selection. This list contains the positions if the field 'Incl. positions' was selected. The list is grouped by customer. Please note the SAP limit of the list area.

27.02.95		Display Archive via Customer number									

Doc. Nr.	DT	GB	VKG	Nett Value	Pos.	Curr	Order	Cust			
Pos.			Material	Nr.	Text			Quant	Per	Price	

Cust : 00302110 HINKELSTEIN-EXPORT / GALLIERDORF											
03026724	F2	20	496	1800,00	2	SFR	1-892/01			199405	
0010			HI00100-A		HS gross			1,000	ST	1500,00	
0020			HI00200-B		HS spitz			1,000	ST	1300,00	
03026799	F2	20	111	21000,00	3	SFR	1-892/01			199405	
0010			HI00200-B		HS gross			5,000	ST	1300,00	
0020			HI00500-A		HS spezial			2,000	ST	500,00	
0030			HI90020-B		HS normal			13,000	ST	1100,00	
Cust : 00312510 DEMONSTRATIONS-FIRMA / ZUERICH											
03026701	F2	20	467	125,38	1	SFR	111/A/1			199401	
0010			S1000		Demomat			1,000	ST	125,38	
03026876	F2	20	467	120,00	2	SFR	111/A/2			199402	
0010			S1000		Demomat			1,000	ST	75,80	
0020			S2000		Demomat 2			1,000	ST	64,00	
Cust : 00312510 WEITERE FIRMA AG / ZUERICH										199403	
OK _ PF: 2=Pickup 3=Back 6=Options 21-24=Paging..... 01/21											

Illustration 11: List of the documents per customer

Pressing PF2 (Pickup) on any of the detail lines leads to the display of the short info.

5.3.3. YA06, Display of documents per material

```
Display archive via material number
-----

Material number..... *
Company code..... 01
Doc type ..... *
incl. positions..... x

OK _                                     1 -38136
```

Illustration 12: Transaction YA06

The article number can be entered generically. The company code has to be entered explicitly. Document type means document type of the document, e.g. TA for a Terminauftrag, also here a generic entry is allowed.

If some documents match the selection criteria, these are shown as a list for an additional selection. This list contains the positions if the field 'Incl. positions' was selected. The list is grouped by article. Please note the SAP limit of the list area.

5.3.4. Short-Info Display

After the list as a result of transactions YA03, YA05, or YA06, the user can now position the cursor on any of the documents and press function key PF2 (Pickup) in order to see its short-infos.

```
Archived RV document      03026701 / 20 / 20 / 467   F2 F Delivery note
GROSS VALUE              90,00   NET VALUE          85,00   SFR           Positions    1
VAT AMOUNT                0,00
Order Nbr Cust                        ZBD
Cust : 00312510 SIEMENS-ALBIS AG / ZUERICH
DELIVERY MODE: 1 / 1 / 1 / 1   DELIVERY MODE: 01 Express
-----
Pos P  WK  LG Material Nbr      Text
Date          Quant ME      Br. PRICE  PER      ME
DL DATE                               Net.PRICE      VAT IND VAT.  Mat
      EAL UVP01 UVP02 UVP04 Tour
-----
X  20  XX 452246040      WID. 2,2MOHM;+-
03.06.94      25.000,000  ST          0,34      SFR          100
                                0,34          0,00      A0          1

OK _      PF: 2=Detail 3=Back 12=Print                                01/01
```

Illustration 13: Short-Infos for VAV document

The display contains the main positions that are stored in the Short Info. The description of how to use table 9YYK to control up to which age document positions are stored in the Short Info is contained in the *Installation Guide*.

5.3.5. Requesting an Original Document

If the ‘Short Infos’ offered by *masc-oas* do not provide sufficient information, then the original document from the document archive can be read simply by pressing the PF2 function key. The physical method of storage is thereby completely irrelevant. The only criteria for successful processing is that the archive dataset is catalogued.

To select a document, place the cursor on the position line and press the PF2 (Pickup) function key.

Should the user request access to the archived document by pressing the function key, then ***masc-oas*** establishes the physical dataset name of the corresponding archive dataset and then creates and initiates a batch job using additional parameters. The located document is written to a 'transfer' database which is available to both the online environment as well as to batch runs. In a SAP installation with CICS, as a last step, the user is directly informed on his display screen in the SAP system of the successful access to the desired document.

If the document selected was already retrieved at an earlier time during the day by a request of the same or another user, it is already in the transfer database. In this case no batch job is started but the details of the selected line item are shown immediately. The authorization to display the relevant objects is checked in any case.

Please note, that the user is not locked out after the initiation of the archive document request but can proceed normally. A message regarding termination of the document request is displayed asynchronously on the screen of the user in question, thus avoiding the need to repeatedly press the ENTER key.

5.3.6. Displaying the requested Archive Documents

The ***masc-oas*** YOAS transaction shows the user all of his requested archive documents for selection for that day. The display shows the requests in sequence. Thus the last requested document is displayed in the first position (A).

```

You have retrieved from the archive the documents:
  CC   DT      Doc. num      Doc. date
-----
A 20   CU      14435244      09.02.1993
B 20   G1      38982828      12.12.1993
C 01   F2      38255555      01.12.1993

OK _      PF: 3=Back 11=Search String 12=Print List      01/01

```

Illustration 14: Requested documents selection list, transaction YOAS

By making a simple selection the user can now inspect the desired document.

Selection occurs either by input of '=A' (or B, C, etc.) or by positioning the cursor onto the desired line and pressing the ENTER key.

Document header, first page

INVOICE (ARCHIV)		DOC TYPE : F2 / F2 F Delivery note	
DOC NUMBER : 03026701			
----- ADDRESSES -----			
CUST. ADDRESS:			
NUMBER : 00312510			
SIEMENS-ALBIS AG			
ALBISRIEDERSTRASSE 245			
CH 8047 - ZUERICH			
DELIVERY ADDRESS: 312510		INVOICE ADDRESS: 312510	
SIEMENS-ALBIS AG		SIEMENS-ALBIS AG	
ALBISRIEDERSTRASSE 245		ALBISRIEDERSTRASSE 245	
CH 8047 - ZUERICH		CH 8047 - ZUERICH	
----- Doc Infos -----			
Doc language : D			
SALES CHANNEL CODE: 20 / TABLE ENTRIES NOT (MORE) AVAILABLE			
ORDER NR.: 832/30114743		DATE OF ORDER : 030594	
MANAGER : AUER		CUSTOMER MANAGER :	
CURRENCY : SFR		Exchange Rate : 1,00000	
VAT IND : 01			
SALES DEPARTMENT : 467 / TABLE ENTRIES NOT (MORE) AVAILABLE			
DELIVERY MODE : 00 / FREI			
OK _ PF: 2=Select 3=Back 5=Regul. Data 6=RK Infos 12=Print 01/04			

Illustration 15: Document header VAV, first page

If in the residence certain table entries that usually serve to give additional information cannot be found (anymore), a message like "Table entries not (more) available" is displayed.

Document header, second page

INVOICE (Archiv)		DOC TYPE : F2 / F2 F Delivery note	
DOC NUMBER : 03026701			

TERMS OF PAYMENT		: 030 TABLE ENTRIES NOT (MORE) AVAILABLE	
DELIVERY CONDITION FREIGHT		: A EXW	

VAT-ID1	VAT-ID2	VAT-ID3	
BASE	BASE	BASE	
AMOUNT	AMOUNT	AMOUNT	

A0			
85,00	0,00	0,00	
	0,00	0,00	
TOTAL VAT. :		0,00	
OK _ PF: 2=Select 3=Back 5=Regul. Daten 6=RK Infos 12=Print 02/04			

Illustration 16: Document header VAV, second page

Please note that only the filled fields of the conditions of delivery are shown.

Document header, second page

INVOICE (Archiv)		DOC TYPE : F2 / F2 F Delivery note			
DOC NUMBER : 03026701					

DIS-1 00 00	0,00	PER.	0		
DIS-2 00 00	0,00	PER.	0		
DIS-3 00 00	0,00	PER.	0		
DIS-4 00 00	0,00	PER.	0		
DIS-5 00 00	0,00	PER.	0		
DIS-6 00 00	0,00	PER.	0		
DIS-7 00 00	0,00	PER.	0		
DIS-8 00 00	0,00	PER.	0		
TOT.POS.GROSS	85,00	SFR	Skontofaehig	85,00	SFR
TOT.POS.NETT	85,00	SFR	Verrech. Wert	140,00	SFR
TOT.POS.NETT2	85,00	SFR	DISC. BASE	85,00	SFR
NET1 VAL ORDER	85,00	SFR	CALC. VALUE	0,00	SFR
NET2 VAL ORDER	85,00	SFR	WEIGHT	0,900	SFR
OK _ PF: 2=Select 3=Back 5=Regul. Daten 6=RK Info 12=Print 03/04					

Illustration 17: Document header VAV, third page, value errors

Regulierer data

INVOICE (Archiv)		DOC TYPE : F2 / F2 F Delivery note	
DOC NUMBER : 03026701			

Pos. Typ : X	WLDAT 00.00.00 ABDAT 06.06.94 VSDAT 00.00.00		
+----- Regulierer Address -----+			
Regulierer : 312510			
+-----+			
SIEMENS-ALBIS AG			
POSTFACH			
ALBISRIEDERSTRASSE 245			
501 8047 - ZUERICH			
+-----+			
DIS-2 00 00	0,00	PER.	0

GROSS VALUE :	85,00	BGW :	0,900
NET VALUE1 :	85,00	BVO :	0,000
NET VALUE2 :	85,00	NGW :	1,400
PRICE NET :	85,00	WVO :	1,400
CALC.-VALUE :	140,00		
OK _ PF: 2=Select 3=Back 5=Regul. Data 6=RK Info 12=Print 1-01/02			

Illustration 18: Regulier data

The data of the Regulierer can be displayed pressing function key PF15.

RK Inos, Header

```

INVOICE (Archiv)          DOC TYPE : F2 / F2 F Delivery note
+----- RK - Daten  Kopf -----+
| RK Infos header        |
+-----+
| RKK01 : HQ             |
| RKK02 : EU             |
| RKK03 :                |
| RKK04 :                |
| RKK05 :                |
| RKK06 :                |
| RKP07 :                |
+-----+
SALES CHANNEL CODE : 20 / TABLE ENTRIES NOT (MORE) AVAILABLE
ORDER NR.: 832/30114743 DATE OF ORDER : 030594
MANAGER : AUER CUSTOMER MANAGER :
CURRENCY : SFR Exchange Rate : 1,00000
VAT IND : 01
SALES DEPARTMENT : 467 / TABLE ENTRIES NOT (MORE) AVAILABLE
DELIVERY MODE : 00 / FREI

OK _ PF: 2=Select 3=Back 5=Regul. Daten 6=RK Info 12=Print 01/04

```

Illustration 19: RK data header

Positions

```

INVOICE (Archiv)          DOC TYPE : G3 / G3 GRATISINVOICEEN
DOC NUMBER : 03026701
-----
POS. MATERIAL              QUANT UNIT              PRICE PER              VALUE
  MATERIAL TEXT
-----
0010 452246040            25.000,000 ST              0,34 100              85,00
    WID. 2,2MOHM;+-10%/0,25W SMC
-----
OK _      PF: 2=Select 3=Back 5=Regul. Daten 6=RK Info 12=Print      04/04

```

Illustration 20: Position overview

All position lines are shown as an overview, the number of pages depends on the number of positions. Pressing function key PF2 (Pickup) on the corresponding line, the details of a position will be displayed.

Position details, first page

INVOICE (Archiv)		DOC TYPE : F2 / F2 F Delivery note	
DOC NUMBER : 03026701			

PPS. TYPE: X	WLDAT 00.00.00 ABDAT 06.06.94 VSDAT 00.00.00		
MATERIAL : 452246040	WID. 2,2MOHM;+-10%/0,25W SMC		
QUANTITY : 25.000,000 ST	PER.DH CCZ01863	BDART	TOURN

REF. ORDER	: 00410191	REF. MATERIAL DOC	: 00000000
REF.DELIVERY NOTE : 20395043			

VAT-INDICATOR	: 1	VAT-KEY	: A0 VAT AMOUNT : 0,00

PRICE :	0,34 SFR	PER. 100	ST PR.LIST: / 00 PR.OR A
PRICE NETT :	0,34	VALUE NETT :	85,00
DIS-1 00 00	0,00	PER. 0	
DIS-2 00 00	0,00	PER. 0	

GROSS VALUE :	85,00	BGW :	0,900
NETT VAL 1 :	85,00	BVO :	0,000
NETT VAL 2 :	85,00	NGW :	1,400
PRICE NETT :	85,00	WVO :	1,400
CALC.-VALUE :	140,00		

OK _	PF: 2=Select 3=Back 5=Regul. Daten 6=RK Info 12=Print		1-01/02

Illustration 21: Position details, first page

Position details, second page

INVOICE (Archiv)		DOC TYPE : F2 / F2 F Delivery note	
DOC NUMBER : 03026701			

COUNTRY OF OR	COUNTRY OF MAN	PREFERENCE ID.	
TYPE OF BUSIN.	PROCEDURE	CONTAINER-ID	
STAT. MATERNR.			

EXPORT LIC. PF	NUMBER	VALID UNTIL	000000
IMPORT LIC. PF	NUMBER	VALID UNTIL	000000

CUSTOMS VALUE	0,00		

DIS-1 00 00	0,00	PER. 0	
DIS-2 00 00	0,00	PER. 0	
DIS-3 00 00	0,00	PER. 0	
DIS-4 00 00	0,00	PER. 0	
DIS-5 00 00	0,00	PER. 0	
DIS-6 00 00	0,00	PER. 0	
DIS-7 00 00	0,00	PER. 0	
DIS-8 00 00	0,00	PER. 0	

OK _	PF: 2=Select 3=Back 5=Regul. Daten 6=RK-Daten 12=Drucken		1-02/02

Illustration 22: Position details, value fields

RK Infos

INVOICE (Archiv)		DOC TYPE : F2 / F2 F Delivery note	
DOC NUMBER : 03026701			
+----- RK-INFOS POSITION -----+			
RK-INFOS POSITION			
+-----+			
RKP01 : 00000			
RKP02 : 00000			
RKP03 : 00000			
RKP04 : 00863			
RKP05 : BCHQO			
RKP06 : STD			
RKP07 :			
RK/PPS-ORDER :			
COST CENTER :			
PROJECT :			
+-----+			
NETT VALUE2 :		85,00	NGW : 1,400
PRICE NETT :		85,00	WVO : 1,400
CALC.-VALUE :		140,00	
OK _		PF: 2=Select 3=Back 5=Regul. Daten 6=RK Info 12=Print	
		1-01/02	

Illustration 23: RK Info

Using function key PF6 the RK Info of the positions can be displayed.

5.4. Requests to the KEK Document Archive

5.4.1. Input of Search Parameter

For the user, the request for an archive document is fully transparent, as it is executed within his familiar SAP environment. If, for instance, a document cannot be further detailed because the line items are reorganized, then the user can request the document from the archive by initiating the ***masc-oas* YK20** transaction.

Display RK archived document (KEK)	<i>masc-oas</i>	Date 09.02.1995

Company Code.....	01	
Document Nbs.....	_	
Accounting period.....	199110	
Order.....	_	
Item nbr of the order.....	_	
Plant.....	_	
Cost center.....	_	
Project.....	_	
Document type.....	_	
Cost element.....	_	
Posting key.....	_	
Max. Nbr. of documents to select	0200 <== Performance!	
OK _		

Illustration 24: Request archived document, transaktion YK20

In addition to direct searching using the document number, the user can also inspect all archived documents belonging to a particular receiving object (cost center, order, project). It is easily obtained by entering the appropriate fields in the ***masc-oas* YK20** transaction.

Filling in additional values in the selection screen further narrows the search of the documents, also the 'Maximum Number of documents to select' sets a limit for the search.

In this context, please note that it is possible to 'mask' the value for the month in the accounting-period parameter. E.g. with the indication of '1993**' in SAP 5.0 or '**93' in SAP 4.3 respectively, all accounting-periods for the year 1993 are searched thru.

Other than reports of the KOEP, YK20 always reads with key in order to minimize the search time.

5.4.2. Display of the archived documents

If according to the entries made on the selection dynpro several archived documents are found, these are shown as follows:

Display RK archived document (KEK)					<i>masc-oas</i>	Date 09.02.1995
Doc Nbr.	Tpe	DT	Acc Per	Doc amount	Nbr sel line items	

02002457	K	CU	10.1991	0,00	2	Selection
00804261	B	KR	10.1991	1.023,25	1	
00349367	B	PZ	10.1991	775,00-	1	
49243005	B	WA	10.1991	195,59	1	
09804323	B	ZB	10.1991	124.545,00-	102	
00493290	B	HB	10.1991	49.455,95	41	
00893769	B	KA	10.1991	1.447,00-	3	
OK _ PF: 3=Back 11=Suchen String 12=Drucken Liste 01/32						

Illustration 25: Display of the archived documents found

Now it is possible to select a specific document pressing PF2 (Pickup).

5.4.3. Short-Info Display

After choosing a document the short-infos for the line items are shown.

Display RK archived document/Short Infos <i>masc-oas</i> Date 09.02.1995									

Doc.:	02002457	Tpe:	K	DT:	CU	Nbr.Pos.Sel.:	2	AccPer.:	10.1991
LI	Rc	Receiver	object	Cost	el	Sd	Sender	object	PK SFR Amount

001	KO	/00001316		00057158	KO	/00001110		BB	8.855,00
002	KO	/00001110		00057158	KO	/00001316		BE	8.855,00-

									0,00

OK _ PF: 3=Back 11=Search String 12=Print List									01/01

Illustration 26: Display of the short infos for the line items of the selected document

5.4.4. Requesting an Original Document

If the 'Short Infos' offered by *masc-oas* do not provide sufficient information, then the original document from the SAPK20U document archive can be read simply by pressing the PF2 function key. The physical method of storage is thereby completely irrelevant. The only criteria for successful processing is that the archive dataset is catalogued.

Should the user request access to the archived document by pressing the function key, then *masc-oas* establishes the physical dataset name of the corresponding archive dataset and then creates and initiates a batch job using additional parameters. The located document is written to a 'transfer' database which is available to both the online environment as well as to batch runs. In a SAP installation with CICS, as a last step, the user is directly informed on his display screen in the SAP system of the successful access to the desired document. Now the document including all line items and data fields as in KOEP can be displayed using the **YOAS** transaction.

If the document selected was already retrieved at an earlier time during the day by a request of the same or another user, it is already in the transfer database. In this case no batch job is started but the details of the selected line item are shown immediately. The authorization to display the relevant objects is checked in any case.

Please note, that the user is not locked out after the initiation of the archive document request but can proceed normally. A message regarding termination of the document request is displayed asynchronously on the screen of the user in question, thus avoiding the need to repeatedly press the ENTER key.

5.4.5. Displaying the requested Archive Documents

The *masc-oas* **YOAS** transaction shows the user all of his requested archive documents for selection for that day. The display shows the requests in sequence. Thus the last requested document is displayed in the first position (A).

Illustration 27: Requested documents selection list, transaction YOAS

Selection occurs either by input of '=A' (or B, C, etc.) or by positioning the cursor onto the desired line and pressing the PF2 (Pickup) key.

The following illustrations show the document heading and the individual account entry lines of the requested original document.

Display RK archived document/Short Infos						masc-oas		Date 09.02.1995	

Doc.: 02002457		Tpe: K	DT: CU	Nbr.Pos.Sel.: 2			AccPer.: 10.1991		
LIIt Rc	Receiver object	Cost el	Sd	Sender object		PK	SFR	Amount	

001	KO	/00001316	00057158	KO	/00001110	BB	8.855,00		
002	KO	/00001110	00057158	KO	/00001316	BE	8.855,00-		

							0,00		
OK _ PF: 3=Back 11=Search String 12=Print List 01/01									

Illustration 28: Display of the short infos for the line items of the selected document

Picking up another line item using PF2 leads to the following display:

Display RK archived document (KEK)		masc-oas		Date 09.02.1995	

Posting date.	26.10.1991	Doc Nbr....	02002457	Receiver...	/00001316
Document date	26.10.1991	Doc line....	01	Sender.....	/00001110
Accnt period.	10.1991				
CPU date....	26.10.1991				
Segment text.	Projekt Talstrasse / div. Leistungen				

Cost element.	00610000	Activity....		Personal Nbr.	
Posting key..	BB	Bus area....	00	DEB/CRE Ind..	
User name....	Beeler				

Price fix....	0,00	fixed price var		0,00	
Price var....	8.855,00	var price varnc		0,00	
Quantity....	0,000	Alt. Qty.....		0,000	

Purch. order.	Reservation....				
OK _	PF: 3=Back 11=Search String 12=Pring list				01/01

Illustration 29: Display details for the selected line item

At this point all data fields of the line item are shown identical the structure in the KOEP. If required further views could be added with little effort.

5.5. Requests to the EAM Document Archive

For the user, the request for an archive document is fully transparent, as it is executed within his familiar SAP environment. If, for instance, a document cannot be further detailed because the line items are reorganized, then the user can request the document from the archive by initiating the ***masc-oas YE23, YE24, or YE25*** transaction.

5.5.1. YE23, Display of a document

Request Short Info for order archive EAM

ORDER NUMBER..... 10078234

COMPANY CODE..... 01

ACCOUNTING PERIOD (YYYYMM)..... 1994**

INCL. POSITIONS..... X

OK _

2 -38136

Illustration 30: Transaction YE23

Using transaction YE23, it is possible to search for a document directly. Order number and company code are required fields and can not be entered generically.

The accounting period, however, allows a generic entry, e.g. 1994** to mask the month.

5.5.2. YE24, Display of documents per supplier

Request Short Info for order archive EAM, supplier

SUPPLIER..... 20018

COMPANY CODE..... 01

ACC. PERIOD (YYYYMM)..... 1994**

INCL. POSITIONS..... X

OK _

2 -38136

Illustration 31: Transaction YE24

The supplier number and the company code have to entered explicitly.

DISPLAY ORDERS FROM ARCHIVE EAM, SUPPLIER											

SUPPLIER NAME				ZIP		TOWN					
ORD.NR.	CC	TO	ORD.DAT.	ORD.NET.VAL.	CURR	EK	TOP	VAT	POS	COUNT	
POS		MATERIALNR.		QUANT		UQ	PRICE		UQ	VALUE	
TEXT		DEL.DAT		W R		ACCOUNT		CAL.QUANT.		Q.GOOD.R.	

20018	IBM SCHWEIZ				8048		ZUERICH				

10078234	01	BX	09.12.94	2.885,00	SFR	20			1		
1	0			1,000	ST	2.885,00			ST	2.885,00	
20	MB Disk		11.02.94	J J	0						

5.5.4. Display Short Infos

Archived order: 01 / 040 / 10078234										Normalbestellung																																							
Date of order: 24.01.1994										NETT VAL: 2.885,00 SFR										Position: 1																													
Supplier : 20018										IBM SCHWEIZ										8048 ZUERICH																													
ZBD :																																																	
ZBED-1 :0 0,0										ZBED-2 :0 0,0																																							
MWSKZ : LIKON :0000										INCOT :										PORTA :										PORTT :										EXPVZ :									

POS P PL ST					Materialnr										Short Text																																		
Del. Date					Order quant OU										Price Curr					per OU					Net Va																								
MATKL					W R					Ord.Q					WEMNG					M1					M2					M3					UEBTO T					UNTTO T									
CRE/CHAN-Date										CONVA GB Real acc.																																							

1 F 01 XX					835001					20 MB Fixed Disk Drive 1																																							
11.02.1994					1,000 ST					2.885,00 SFR					1 ST					2.885,00																													
K11					J J																																												
10.01.1994					1,00000 02					5					10					15					J					J																			
OK _ PF: 3=Back 11=Search String 12=Print List																				01/01																													

Illustration 33: Short Infos Archive EAM

5.5.5. Requesting an Original Document

If the ‘Short Infos’ offered by **masc-oas** do not provide sufficient information, then the original document from the document archive can be read simply by pressing the PF2 function key. The physical method of storage is thereby completely irrelevant. The only criteria for successful processing is that the archive dataset is catalogued.

Should the user request access to the archived document by pressing the function key, then **masc-oas** establishes the physical dataset name of the corresponding archive dataset and then creates and initiates a batch job using additional parameters. The located document is written to a ‘transfer’ database which is available to both the online environment as well as to batch runs. In a SAP installation with CICS, as a last step, the user is directly informed on his display screen in the SAP system of the successful access to the desired document. Now the document including all line items and data fields as in KOEP can be displayed using the **YOAS** transaction.

If the document selected was already retrieved at an earlier time during the day by a request of the same or another user, it is already in the transfer database. In this case no batch job is started but the details of the selected line item are shown immediately. The authorization to display the relevant objects is checked in any case.

Please note, that the user is not locked out after the initiation of the archive document request but can proceed normally. A message regarding termination of the document request is displayed asynchronously on the screen of the user in question, thus avoiding the need to repeatedly press the ENTER key.

5.5.6. Displaying the requested Archive Documents

The ***masc-oas*** **YOAS** transaction shows the user all of his requested archive documents for selection for that day. The display shows the requests in sequence. Thus the last requested document is displayed in the first position (A).

You have retrieved from the archive the documents:			
CC	DT	Doc. num	Doc. date

A 20	NB	10078234	09.02.1993
B 20	G1	38982828	12.12.1993
C 01	F2	38255555	01.12.1993
OK _	PF: 3=Back 11=Search String 12=Print List		01/01

Illustration 34: Requested documents selection list, transaction YOAS

By making a simple selection the user can now inspect the desired document.

Selection occurs either by input of '=A' (or B, C, etc.) or by positioning the cursor onto the desired line and pressing the PF2 (Pickup) key.

Document overview

ORDER ARCHIVE		040 / 10078234 NB		COMP.CODE 01 L & G Techn. Innovation AG	

SUPPLIER		IBM SCHWEIZ		CONTRACT 00000000	
00020018		8048 ZUERICH		ORD-DAT 24.01.94	
				CURR... SFR	

Pos	PA	T S	MATERIAL-NUMBER		SHORT TEXT
			PLNT	STOCK	DE/IN-DT
001	VA	F	0		
			01	XX	11.02.94
					1 Stk.20 MB Fixed Disk Drive 1056
					1,000 A 2.885,00 1 A
OK _		PF: 2=Pickup 14=DISPLA HEAD/POS		15=POSITION OVERVIEW	
				01/01	

Illustration 35: Document overview

Pressing function key PF2 with cursor selection on a position line, it is now possible to display the position data of the respective position. Pressing function key PF14 leads to the display of the document header data.

Document header data

HEADER OF ORD 040 / 10078234 NB				COMP.CDE 01 L & G Techn. Innovation AG	

SUPPLIER		IBM SCHWEIZ		LF-VERM	
00020018		ZUERICH		09.12.94 00000000	

ORD.DATE 24.01.94 LIKON..				CURRENCY SFR	
ZBED-1.. 30 0,0		ZBED-2. 0 0,0		ZBED-3. 0	
LANGUAGE D		WE-AKT. CNT-OBL.		0,00	
YOUR OFF 000000		YOUR SI		DEPARTMNT EINKAUF	
				MANAGER MEIER	
DEL DATE 0		SALES Fr.Bregante		STATUS	
BS/OL-DR J		L-POSNR 1 EDI		ORDER.B	
FAX-NUMBER..		014367636			

Illustration 36: Document header data

This is the display of all important data of the document header.

Pressing function key PF14 display all positions in sequential order, function key PF15 shows the position overview.

Position details, 1st page

A POS 10078234 / 1			PLNT/STOCK XX / 01		

MATERIAL	0	1 Stk.20 MB Fixed Disk Drive 1056			
WGP./MKL.	0164	A			
DELIVERED	1,000	A			
CALCULAT.	1,000	A	DEL-FLAG		
OPEN.....	0,000	A	CH-DAT..		

QUANT.ORD	1,000	A	1,00000 A DEL.DAT 11.02.94		
PRICE....	2.885,00	SFR	1 A	J	N
NET PRICE	2.885,00	SFR	NET VALUE 2.885,00 SFR		
DIS-1....	DIS-2.....				
DIS-3....	DIS-4.....				

UN/UE-TOL	J 10,0	J 10,0	QUAL-ID..		BONUS..
ADMONITION1.	10	2. 15 3.	28	BANF-NR..	INFO-NR

ACCOUNT...	47200	GSB.	GR N IR J FI-PLAN		
COST CENT.		PROJ			
ORDER.....	300441	POS 2	AVO	PART LI	
CU-ORDER..		POS	UPOS		
FACILITY..		KEY	FACILITY NR..		ANL.UNT.NR.

OK _	PF: 3=Back 14=Anzeigen Kopf/Pos 15=Positionsuebersicht				2-01/02

Illustration 37: Position details, 1st page"

Pressing function key PF14 display the data of the following position, if available. Pressing function key PF15 display the position overview. The Enter key leads to the 2nd page of the position details.

Position details, 2nd page

```

A POS 10078234 /      1                      PLNT/STOCK XX / 01
-----
LOHN.....          NET PRICE              NET VALUE.
MAT.NR.LV. 0          CC    PLNT    QUANT          0,000
DL.QUANT..          0,000    VAL DL          0,00 CAL.VAL.          0,00
-----

```

Illustration 38: Position details, 2nd page"

6. INDEX REORGANISATION

The options for the reorganisation of the ***masc-oas*** index datasets and their execution in your system environment are described in detail in the *Installation Guide*.

7. MESSAGES AND ERROR SEARCH

The following chapter gives an overview of message statements used by ***masc-oas*** and describes the error procedure.

7.1. *masc-oas* Messages

7.1.1. Messages on the Screen

After a request for an original document from the document archive ***masc-oas*** reports the termination of the document search to the user with one of the following messages in the SAP system.

OAS300I	DOCUMENT-NBR nnnnnnnn RETRIEVED. DISPLAY WITH YOAS
----------------	---

This message informs the user that the batch document search was successful and that the requested original document with document number 'nnnnnnnn' is now available for display in the SAP system.

User: The document with the number 'nnnnnnnn' can be displayed with the ***masc-oas*** YOAS transaction.

OAS301I	ERROR IN DOC-RETRIEVAL: nnnnnnnn NOT DISPLAYABLE
----------------	---

This message informs the user, that an error occurred in the batch document search and that the requested original document with the number 'nnnnnnnn' cannot be made available for display.

User: Please inform your SAP system support

SAP system support: Please check the job log of the batch document search and correct the cause of the error. Delete the entry in the T9YYB table.

OAS302I	DOC-RETRIEVAL ABENDED: nnnnnnnn NOT DISPLAYABLE
----------------	--

This message informs the user that the batch document search has been abandoned and that the requested original document with the number 'nnnnnnnn' cannot be made available for display.

User: Please inform your SAP system support.

SAP system support: Please check the job log of the batch document search and correct the cause of the error. Delete the entry for the document in the T9YYB table.

OAS303I	NO RETURNCODE GIVEN FROM DOCUMENT-RETRIEVAL
----------------	--

This message informs the user that no return code was reported by the document search. The requested original document could possibly be made available.

User: Please inform your SAP system support.

SAP system support: Please check in the job log of the batch document search, why no return code was returned from calling the OASM transaction (Job steps ARCMD00, ARCMD12, ARCMD16). The batch JCL of the document search may have to be regenerated. (see ***masc-oas Installation Guide***).

7.1.2. Messages in the Job Log

Apart from the messages displayed directly to the user, other ***masc-oas*** messages can appear in the job log of the corresponding TP monitors. If problems arise during use of ***masc-oas***, then the job log of the corresponding TP monitor jobs should be inspected for the following error messages. Inspection of the job log is usually carried out by the SAP system support., i.e. the person responsible for the TP monitor.

OAS900E	INCORRECT INVOC.-PARMS RECEIVED
----------------	--

This message occurs when the OASM transaction was called (sending of OAS3xx messages) with invalid call parameters..

Action: Please check in the job log of the batch document search as to why the OASM transaction was called with no or incorrect call parameters. (Job steps ARCMD00, ARCMD12, ARCMD16). The batch JCL of the document search may have to be regenerated. (see ***masc-oas Installation Guide***).

OAS920E	NO TERMINAL FOUND FOR USERID:xxxxxxxx
----------------	--

This message occurs when the terminal address of a user (xxxxxxxx), that started a document request could not establish the user id within the TP monitor (**not** the SAP Userid). The terminal address is required for the sending of the OAS3xx messages. The requested original document is however still available for display in the SAP system.

As a rule, this problem occurs when a user, who started a document request, signs off from the online system during processing of batch run. However, it is also possible that no userid is kept in the relevant TP monitor. This case can be determined if no value entered for the userid (xxxxxxxx) in the message.

Action: In the first case: none. In the second case: It should be checked whether it is possible to drive the TP monitor using userids for SAP users.

OAS998E	UNEXPECTED HANDLE CONDITION RECEIVED
----------------	---

An unexpected problem has arisen in the OASM transaction. This message always appears in conjunction with the OS999E MESSAGE.

Action: see under Message OAS999E.

OAS999E	EIBFN/EIBRC PROGRAM (xxxxxxx) - FN()-RC()
----------------	--

This message gives information about an error arisen in program xxxxxxxx. The bracketed values give information in hex about the function (FN) and its return code (RC) which caused the error.

Action: Based on the system literature for the corresponding TP monitor check the cause of the problem and correct your environment accordingly. Should you not succeed, report the error message to the supplier of **masc-oas**.

7.2. Error Search

masc-oas informs the user of any problems which have arisen. As a rule this communication occurs on the job log of the relevant TP monitor, i.e. the batch document request. Therefore should problems arising in the operation of **masc-oas**, please check the appropriate job log for any of the error messages listed above.

Should you have problems in determining and correcting the cause of the error then please refer to the **masc-oas** supplier.